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The use of genetic programming to build queries for it retrieval

- Kraft, D.H.; Petry, F.E.; Buckles, B.P.; Sadasivan, T.

Dept. of Comput. Sci., Louisiana State Univ., Baton Rouge, LA, USA

This paper appears in: Evolutionary Computation, 1994. IEEE World Computational Intelligence., Proceedings of the First IEEE Conference.

On page(s): 468 - 473 vol.1

27-29 June 1994

1994

ISBN: 0-7803-1899-4

IEEE Catalog Number: 94TH0650-2 Number of Pages: 2 vol. (xx+xiv+862)

References Cited: 11

INSPEC Accession Number: 4818686

Abstract:

Genetic programming is applied to an information retrieval system in order Boolean query formulation via relevance feedback. This approach brings tog concepts of information retrieval and genetic programming. Documents are vectors in index term space. A Boolean query, viewed as a parse tree, is an the genetic programming sense. Through the mechanisms of genetic prograquery is modified in order to improve precision and recall. Relevance feedback incorporated, in part, via user defined measures over a trial set of documen of a candidate query can be expressed directly as a function of the relevance retrieved set. Preliminary results based on a testbed are given. The form of function has a significant effect upon performance and the proper fitness fur into account relevance based on topicality (and perhaps other factors).

Index Terms:

genetic algorithms; search problems; query processing; information retriev vocabulary; Boolean functions; trees (mathematics); genetic programming; retrieval system; Boolean query formulation; relevance feedback; index ter parse tree; user defined measures; fitness function; topicality

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Query expansion for intelligent information retrieval Internet

- Jae-Hyun Lim; Hyon-Woo Seung; Jun Hwang; Young-Chan Kim; Heung-Na Dept. of Comput. Sci. & Eng., Chungang Univ., Dongjak-Ku, South Korea This paper appears in: Parallel and Distributed Systems, 1997. Proceed International Conference on

On page(s): 656 - 662 10-13 Dec. 1997

1997

ISBN: 0-8186-8227-2

IEEE Catalog Number: 97TB100215

Number of Pages: xx+811 References Cited: 12

INSPEC Accession Number: 5787686

Abstract:

Most systems that manage distributed information on Internet have difficult retrieving relevant information for they are not able to include the exact ser retrieval queries that users request. In this paper, we propose an automatic **expansion** method based on term distribution, which naturally reflects ser retrieval terms in order to enhance the performance of information retrieval technique in the LSI is utilized in the proposed method to measure the term which appears similar to a query. Terms appearing most similar to the quer consideration of the distribution are appended to the query. Thereby, the querous documents without having common terms but with common concepts. An a reduction technique is also proposed which does not choose to append all the same distribution area. The experimental results show our method maintair retrieval effectiveness as the other LSI methods without having to append runnecessary terms.

Index Terms:

Internet; query processing; information retrieval; **query expansion**; intelli information retrieval; Internet; distributed information; semantics; term di: SVD technique; LSI; automatic term reduction technique

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13	BRS	L13	О	10 AND (web! OR www! OR internet!) NOT @AD>19941231		2001/08/15 18:13
14	BRS	L14	4	10 NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:14
15	BRS	L15	83	9 AND map! AND (web! OR www! OR internet!)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	
16	BRS	L16	3	15 NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:17
17	BRS	L17	288	1 SAME (map\$2 OR atlas\$2 OR driving! OR navigat\$5 OR driver\$2 OR route! OR travel\$4)		2001/08/15 18:21
18	BRS	L18	52	9 AND 17	• ;	2001/08/15 18:17

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19	BRS	L19	2	<u> </u>	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:17
20	BRS	L20	296	1 SAME (road\$2 OR touris\$5 OR map\$2 OR atlas\$2 OR driving! OR navigat\$5 OR driver\$2 OR route! OR travel\$4)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:21
21	BRS	L21	8	20 NOT 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:21
22	BRS	L22	268	magellan!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:23
23	BRS	L23	19	9 AND 22		2001/08/15 18:23
24	BRS	L24	0	23 AND (web! OR www! OR internet!) NOT @AD>19941231	•	2001/08/15 18:23

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26	BRS	L26	1	1 AND 22	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:24
27	BRS	L27	97	22 NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:26
28	BRS	L28	9	22 NOT @AD>19941231 AND (map! OR atlas!)		2001/08/15 18:32
29	BRS	L29	1	a lamenosa los xa xo ano		2001/08/15 18:33
30	BRS	L30	1	"5640553".PN.	USPAT	2001/08/15 18:34
31	BRS	L31	61	((search\$4 OR retriev\$4 OR quer\$4) SAME 1) NOT @AD>19941231		2001/08/15 18:39

	Туре	L #	Hits	Search Text	DBs	Time Stamp
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33	BRS	L33	1	31 AND (web! OR www! OR	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:41
34	BRS	L34	20	31 AND map!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:43
35	BRS	L35	4	31 AND map! AND category!		2001/08/15 18:44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
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2	BRS	L2	610	1 AND map!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 17:55
3	BRS	L3	78	1 AND map! AND (web! OR www! OR internet!)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:14
4	BRS	L4	4	1 AND (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 17:56
5	BRS	L5	887	(atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:12
6	BRS	L6	42	((search\$4 OR retriev\$4 OR quer\$4) SAME (atlas! OR map!)) AND (web! OR www! OR internet!) NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:39

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8	BRS	L8	11	6 AND (701/\$.ccls. OR 707/\$.ccls. OR 709/\$.ccls. OR 705/\$.ccls.)	JPO; DERWEN T; IBM TDB	2001/08/15 18:12
9	BRS	T 9	2481	701/20\$,21\$.ccls.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:12
10	BRS	L1 0	63	9 AND 1	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:12
11	BRS	L11	0	10 AND (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231		2001/08/15 18:13
12	BRS	L12	0			2001/08/15 18:23

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2	BRS	L2	1	1 AND internet!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 16:55
3	BRS	L3	93	701/20\$.ccls. AND internet!		2001/08/15 16:51
4	BRS	L4	11		USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 16:51
5	BRS	L5	492	navigation! SAME internet!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 16:55

	Туре	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	2761	point! ADJ2 interest!	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 17:55
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3	BRS	L3	78	1 AND map! AND (web! OR www! OR internet!)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	
4	BRS	L4		1 AND (atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231		2001/08/15 17:56
5	BRS	L5	887	(atlas! OR map!) AND (web! OR www! OR internet!) NOT @AD>19941231		2001/08/15 18:12
6	BRS	L6	42	((search\$4 OR retriev\$4 OR quer\$4) SAME (atlas! OR map!)) AND (web! OR www! OR internet!) NOT @AD>19941231		2001/08/15 18:00

	Туре	L#	Hits	Search Text	DBs	Time Stamp
7	BRS	L7	2	((search\$4 OR retriev\$4 OR quer\$4) SAME (category! OR topic\$2 OR interest!) SAME (atlas! OR map!)) AND (web! OR www! OR internet!) NOT @AD>19941231	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:10
8	BRS	L8	11	6 AND (701/\$.ccls. OR 707/\$.ccls. OR 709/\$.ccls. OR 705/\$.ccls.)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:12
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	Туре	L #	Hits	Search Text	DBs	Time Stamp
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15	BRS	L15	83	9 AND map! AND (web! OR www! OR internet!)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	
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17	BRS	L17	288	1 SAME (map\$2 OR atlas\$2 OR driving! OR navigat\$5 OR driver\$2 OR route! OR travel\$4)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:21
18	BRS	L18	52	9 AND 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:17

	Туре	L#	Hits	Search Text	DBs	Time Stamp
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20	BRS	L20		1 SAME (road\$2 OR touris\$5 OR map\$2 OR atlas\$2 OR driving! OR navigat\$5 OR driver\$2 OR route! OR travel\$4)	EPO;	
21	BRS	L21	8	20 NOT 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/08/15 18:21